

The FEBS Congress 2019 - Krakow, Poland

Saturday, 2019/7/6

Auditorium Hall S1

17:00 - 17:30 Opening Ceremony

Social Program

17:30 - 18:30 Opening Lecture

Plenary Lectures

17:30 - 18:30 **Opportunistic RNAs and acquisitive genomes**
Andrew Z. Fire (USA)

18:30 - 19:00 Cultural Event

Social Program

Theatre Room S2

19:00 - 21:00 Welcome Reception

Social Program

Chamber Hall S3A

19:00 - 21:00 Welcome Reception

Social Program

Chamber Hall S3B

19:00 - 21:00 Welcome Reception

Social Program

Hall Complex S4A

19:00 - 21:00 Welcome Reception

Social Program

Sunday, 2019/7/7

Auditorium Hall S1

09:00 - 11:00 DNA variation

Symposia

Chairs: Piotr Kozlowski (PL) Manfred Kayser (NL)

09:00 - 09:30 **Human appearance genetics: discovering genes, understanding gene function, applying in forensics and anthropology**
Manfred Kayser (The Netherlands)

09:30 - 10:00 **The biological history of central European human populations**
Marek Figlerowicz (Poland)

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10:00 - 10:30	Human genetic variation in diverse populations Chris Tyler-Smith (UK)	
11:00 - 11:30	Coffee Break	Poster Session and Coffee Break
11:30 - 12:30	IUBMB Lecture	Plenary Lectures
11:30 - 12:30	Hydrogen sulfide: an endogenous gasotransmitter with diverse biological roles ranging from cardiovascular disease to cancer Csaba Szabo (Switzerland)	
12:30 - 13:00	FEBS Journal Prize Lecture	Plenary Lectures
12:30 - 13:00	To be announced in early 2019 after selection of the prizewinner	
14:00 - 15:00	FEBS/EMBO Women in Science Award Lecture	Plenary Lectures
14:00 - 15:00	On the mechanism of amyloid β aggregation and the role of inhibitors Sara Linse (Sweden)	
15:00 - 16:15	Poster Session & Coffee Break	Poster Session and Coffee Break
16:15 - 18:15	DNA architecture Chairs: Igor Konieczny (PL) Tomasz Zemojtel (DE)	Symposia
16:15 - 16:45	Towards precision medicine: clinical tumor DNA sequencing Tomasz Zemojtel (Germany)	
16:45 - 17:15	The Management of the Bacterial Chromosome David Sherratt (UK)	
17:15 - 17:45	Pheno-seq: placing single cell sequencing into a spatial context Roland Eils (Germany)	
18:30 - 19:30	Art & Science Session	Art & Science
Theatre Room S2		
09:00 - 11:00	RNA processing Chairs: Magda Konarska (PL) Juan Valcarcel (ES)	Symposia
09:00 - 09:30	Networks of alternative splicing regulation in cancer Juan Valcárcel (Spain)	
09:30 - 10:00	Towards a molecular understanding of the eukaryotic 3'-end machinery Ana Casañal (UK)	
10:00 - 10:30	Interactions within the spliceosomal catalytic core modulate transition between the two catalytic steps Magda Konarska (Poland)	
11:00 - 11:30	Coffee Break	Poster Session and Coffee Break

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16:15 - 18:15 RNA transcription Symposia
Chairs: Szymon Swiezewski (PL) Jane Mellor (UK)

16:15 - 16:45 **Using mathematical modelling to understand coding and non-coding transcription**
Jane Mellor (UK)

16:45 - 17:15 **Quantifying cell-size dependent transcriptional dynamics**
Martin Howard (UK)

17:15 - 17:45 **Antisense transcription in plants**
Szymon Swiezewski (Poland)

Chamber Hall S3A

09:00 - 11:00 Cardiovascular diseases Symposia
Chairs: Stefan Chlopicki (PL) Andreas Daiber (DE)

09:00 - 09:30 **Aircraft noise-induced vascular dysfunction, oxidative stress, inflammation and adverse gene regulation – sources of ROS and cerebral activation**
Andreas Daiber (Germany)

09:30 - 10:00 **Targeted pharmacological interventions in endothelial disorders**
Vladimir Muzykantov (USA)

10:00 - 10:30 **In vivo endothelial profiling in experimental pharmacology of endothelium**
Stefan Chlopicki (Krakow)

11:00 - 11:30 Coffee Break Poster Session and Coffee Break

Chamber Hall S3B

09:00 - 11:00 Molecular mechanism of inflammation-related diseases Symposia
Chairs: Jolanta Jura (PL) Wim Declercq (BE)

09:00 - 09:30 **Receptor interacting kinase signalling in skin homeostasis and disease**
Wim Declercq (Belgium)

09:30 - 10:00 **Ubiquitin signalling in inflammation**
Mads Gyrd-Hansen (UK)

10:00 - 10:30 **EGFR signaling networks in cancer development**
Maria Sibilica (Austria)

11:00 - 11:30 Coffee Break Poster Session and Coffee Break

16:15 - 18:15 Signal transduction Symposia
Chairs: Agnieszka Dobrzyn (PL) Christian Wolfrum (CH)

16:15 - 16:45 **Sympathetic Neuroimmunity in Obesity**
Ana Domingos (Portugal)

16:45 - 17:15 **Regulation of brown fat formation and function – implications for metabolic control**
Christian Wolfrum (Switzerland)

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17:15 - 17:45 **The interplay between metabolism and signalling during Drosophila wing disc development**
Alena Krejci (Czech Republic)

Hall Complex S4A

09:00 - 11:00 Intracellular ion channels and transporters
Chairs: Adam Szewczyk (PL) Ildiko Szabo (IT)

Symposia

09:00 - 09:30 **Linking mitochondrial Kv1.3 to intracellular signaling**
Ildikó Szabó (Italy)

09:30 - 10:00 **Between Energy Conservation and Energy Dissipation: The Dual Life of F-ATP synthase**
Paolo Bernardi (Italy)

10:00 - 10:30 **Cardioprotective Roles of Plasmamembrane and Mitochondrial BK K⁺ Channels as Effectors of cGMP Signaling**
Peter Ruth (Germany)

11:00 - 11:30 Coffee Break

Poster Session and Coffee Break

16:15 - 18:15 Mitochondria and signalling
Chairs: Agnieszka Chacinska (PL) Bettina Warscheid (DE)

Symposia

16:15 - 16:45 **The Mitochondrial Proteome in Cellular Context**
Bettina Warscheid (Italy)

16:45 - 17:15 **Mitochondria, mitophagy and inflammation in relation to Parkinson's Disease**
Richard Youle (USA)

17:15 - 17:45 **CLUH and the post-transcriptional regulation of mitochondrial function**
Elena Rugarli (Germany)

Monday, 2019/7/8

Auditorium Hall S1

09:00 - 11:00 DNA editing and modification
Chairs: Iwona Fijalkowska (PL) Ryszard Slomski (PL)

Symposia

09:00 - 09:30 **dNTPs and maintenance of genome stability**
Andrei Chabes (Sweden)

09:30 - 10:00 **Chromosome replication dynamics and genome (in)stability in normal and cancer cells**
Etienne Schwob (France)

10:00 - 10:30 **Formation and progression of replication forks in budding yeast**
Hiroyuki Araki (Japan)

11:00 - 11:30 Coffee Break

Poster Session and Coffee Break

11:30 - 12:30 FEBS Datta Lecture

Plenary Lectures

11:30 - 12:30 **Human pluripotent stem cell models of cardiac and vascular disease**
Christine Mummery (The Netherlands)

13:45 - 14:45 FEBS Sir Hans Krebs Lecture

Plenary Lectures

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13:45 - 14:45 **The Human Protein Atlas – implications for human biology, drug development and precision medicine**
Mathias Uhlen (Sweden)

14:45 - 16:15 Poster Session & Coffee Break

Poster Session and Coffee Break

16:15 - 18:15 Molecular neurobiology

Symposia

Chairs: Leszek Kaczmarek (PL) Peter Kalivas (US)

16:15 - 16:45 **Signaling in the extracellular matrix mediates drug relapse**
Peter W. Kalivas (USA)

16:45 - 17:15 **Cellular basis of addiction-related memories**
Anna Beroun (Poland)

17:15 - 17:45 **How we may have gotten addiction wrong: one lever at a time?**
Markus Heilig (Sweden)

Theatre Room S2

09:00 - 11:00 RNA transport and translation

Symposia

Chairs: Marek Tchorzewski (PL) Marina Rodnina (DE)

09:00 - 09:30 **Translation and recoding of genetic information by the ribosome.**
Marina Rodnina (Germany)

09:30 - 10:00 **Connecting quality control systems in mRNA translation**
Sebastian Leidel (Switzerland)

10:00 - 10:30 **Ribosome Heterogeneity: Implications for translation of the genetic code and organismal life**
Maria Barna (USA)

11:00 - 11:30 Coffee Break

Poster Session and Coffee Break

16:15 - 18:15 RNA turnover

Symposia

Chairs: Andrzej Dziembowski (PL) Dominique Gagliardi (FR)

16:15 - 16:45 **mRNA uridylation and its complex outcomes**
Dominique Gagliardi (France)

16:45 - 17:15 **Regulation of Gene Expression by non-canonical poly(A) and poly(U) polymerases**
Andrzej Dziembowski (Poland)

Chamber Hall S3A

09:00 - 11:00 Single cell analysis and imaging

Symposia

Chairs: Joanna Szczepanowska (PL) Alberto Luini (IT)

09:00 - 09:30 **Including super-resolution- and FRET-based techniques in the expanding repertoire of correlative microscopy**
Alberto Luini (Italy)

09:30 - 10:00 **Illuminating the architecture of the endoplasmic reticulum-mitochondria interface**
Luca Scorrano (Italy)

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10:00 - 10:30 **OME's Bio-Formats, OMERO & IDR: Open Tools for Accessing, Integrating, Mining & Publishing Image Data @ Scale**
Jason Swedlow (UK)

11:00 - 11:30 Coffee Break

Poster Session and Coffee Break

Chamber Hall S3B

09:00 - 11:00 Calcium and ROS signalling
Chair: Shey-Shing Sheu (US)

Symposia

09:00 - 09:30 **Calcium, ATP and ROS: a mitochondrial love-hate triangle**
Shey-Shing Sheu (USA)

09:30 - 10:00 **Role of calcium regulated mitochondrial metabolite transporters in calcium signalling**
Jorgina Satrústegui (Spain)

10:00 - 10:30 **Mitochondrial redox regulation in heart failure**
Christoph Maack (Germany)

11:00 - 11:30 Coffee Break

Poster Session and Coffee Break

16:15 - 18:15 Cytoskeleton and molecular mechanisms of motility
Chairs: Joanna Moraczewska (PL) Folma Buss (UK)

Symposia

16:15 - 16:45 **The cellular functions of myosin motors in health and disease**
Folma Buss (UK)

16:45 - 17:15 **Nuclear actin in gene expression and genome organization**
Maria K. Vartiainen (Finland)

17:15 - 17:45 **Multiple microtubule motor isoforms: the same or different?**
Viki Allan (UK)

Hall Complex S4A

09:00 - 11:00 Sulfur metabolism and cellular regulation
Chairs: Maria Wrobel (PL) Csaba Szabo (CH)

Symposia

09:00 - 09:30 **Therapeutic potential of mitochondria-targeted sulfide delivery molecules**
Matthew Whiteman (UK)

09:30 - 10:00 **Chemical biology of polysulfide species**
Peter Nagy (Hungary)

10:00 - 10:30 **Novel targets for H₂S in the cardiovascular system**
Andreas Papapetropoulos (Greece)

11:00 - 11:30 Coffee Break

Poster Session and Coffee Break

16:15 - 18:15 Rare diseases
Chairs: Grzegorz Wegrzyn (PL) Shunji Tomatsu (US)

Symposia

16:15 - 16:45 **Glycosaminoglycans and Mucopolysaccharidoses**
Shunji Tomatsu (USA)

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- 16:45 - 17:15 **Autophagy stimulation as an approach for treatment of rare neurodegenerative diseases**
Grzegorz Węgrzyn (Poland)
- 17:15 - 17:45 **European initiatives and European reference networks in the field of rare diseases: a case example of Czech Republic**
Milan Macek (Czech Republic)

Tuesday, 2019/7/9

Auditorium Hall S1

- 09:00 - 11:00 Signalling in brain cancer Symposia
Chairs: Bozena Kaminska (PL) Joan Seoane (ES)

- 09:00 - 09:30 **Immunomodulation in brain tumors**
Joan Seoane (Spain)
- 09:30 - 10:00 **Role of osteopontin-integrin signalling in glioma-microglia crosstalk**
Bozena Kaminska (Poland)
- 10:00 - 10:30 **Developmental insights into astrocyte function**
Benjamin Deneen (USA)

- 11:00 - 11:30 Coffee Break Poster Session and Coffee Break

- 11:30 - 12:30 FEBS Theodor Bücher Lecture Plenary Lectures

- 11:30 - 12:30 **Regulation of gene expression by RNA-binding proteins and non-coding RNAs**
Günter Meister (Germany)

- 12:30 - 13:45 Lunch Break & Commercial Event Lunch Break and Commercial Event

- 13:45 - 14:45 Plenary Lecture Plenary Lectures

- 13:45 - 14:45 **Novel insights into the inner workings of the spliceosome by combined biochemical and Cryo-EM studies**
Reinhard Lührmann (Germany)

- 14:45 - 16:15 Poster Session & Coffee Break Poster Session and Coffee Break

- 16:15 - 18:15 Neurodegeneration Symposia
Chairs: Jacek Kuznicki (PL) Oliver Bandmann (UK)

- 16:15 - 16:45 **Disease-modifying treatment in Parkinson's disease – opportunities and obstacles**
Oliver Bandmann (UK)
- 16:45 - 17:15 **Canonical Wnt signaling in brain maturation and metabolism: implications for neurodegeneration**
Marta Wiśniewska (Poland)
- 17:15 - 17:45 **ER-Mitochondria crosstalk and Alzheimer's Disease: a key signalling pathway in neurodegeneration**
Paola Pizzo (Italy)

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18:30 - 19:30 Art & Science Session

Art & Science

Theatre Room S2

09:00 - 11:00 Long noncoding RNA

Symposia

Chairs: Marek Figlerowicz (PL) Thomas B. Hansen (DK)

09:00 - 09:30 **Biogenesis and function of circRNAs**

Thomas B. Hansen (Denmark)

09:30 - 10:00 **Posttranscriptional mechanisms of human retrotransposon regulation**

Zbigniew Warkocki (Poland)

11:00 - 11:30 Coffee Break

Poster Session and Coffee Break

16:15 - 18:15 Small noncoding RNA

Symposia

Chairs: Zofia Szweykowska-Kulinska (PL) Witek Filipowicz (CH)

16:15 - 16:45 **Regulation of miRNA biogenesis in plants**

Artur Jarmolowski (Poland)

16:45 - 17:15 **Gene expression control by RNA modifications**

Ramesh Pillai (Switzerland)

17:15 - 17:45 **Cross-Kingdom RNAi and small RNA trafficking between plant and fungal pathogens**

Hailing Jin (USA)

Chamber Hall S3A

09:00 - 11:00 Integrative approaches to structural and synthetic biology

Symposia

Chair: Lucia Banci (IT)

09:00 - 09:30 **Structural Biology in a Cellular Perspective**

Lucia Banci (Italy)

09:30 - 10:00 **Supramolecular assemblies for biomedical applications**

Sergey M. Deyev (Russia)

09:30 - 10:00 **Divergent non-heme iron enzymes in polyketide biosynthesis**

Gunter Schneider (Sweden)

11:00 - 11:30 Coffee Break

Poster Session and Coffee Break

Chamber Hall S3B

09:00 - 11:00 Induced pluripotent cells

Symposia

Chairs: Jozef Dulak (PL) Malgorzata Borowiak (PL)

09:00 - 09:30 **Induced pluripotent stem cells in modeling of cardiac diseases**

Jozef Dulak (Poland)

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09:30 - 10:00	From iPS cells to Skeletal Muscle Precursors: Potential for Gene Correction and Therapeutic Application Rita Perlingeiro (USA)	
11:00 - 11:30	Coffee Break	Poster Session and Coffee Break
16:15 - 18:15	FEBS Special Session on Science and Society – Personalised medicine: a future vision Chairs: Emmanouil Fragkoulis (GR) Isabel Varela-Nieto (ES)	Special Sessions
16:15 - 16:45	An introduction to personalised medicine Stylios E. Antonarakis (Switzerland)	
16:45 - 17:15	Bioethics and personalised medicine Andrzej Kochanski (Poland)	
17:15 - 17:45	Precision medicine of rare diseases and the link with common disorders Francesc Palau (Spain)	

Hall Complex S4A

09:00 - 11:00	Synthetic biopolymers for biomedicine Chairs: Barbara Nawrot (PL) Peter H. Seeberger (DE)	Symposia
09:00 - 09:30	Molecular Glycobiology Peter H. Seeberger (Germany)	
09:30 - 10:00	Towards selective activity-based probes to image proteases activity in health and disease Marcin Drag (Poland)	
10:00 - 10:30	New Oligonucleotide Analogues Useful for Research in Biology and Material Science Marvin H. Caruthers (USA)	
11:00 - 11:30	Coffee Break	Poster Session and Coffee Break
16:15 - 18:15	Cell therapy and regeneration medicine Chairs: Leonora Buzanska (PL) Angelo Vescovi (IT)	Symposia
16:15 - 16:45	Neural Stem Cells: Key Physiological Aspects and Clinical Trials Angelo L. Vescovi (Italy)	
16:45 - 17:15	Epithelial stem cells can produce multiple Regenerative Medicine protocols Graziella Pellegrini (Italy)	
17:15 - 17:45	Reprogrammed and Immune Cell for Functional Regeneration of Stroke-Damaged Brain Zaal Kokaia (Sweden)	

Wednesday, 2019/7/10

Auditorium Hall S1

09:00 - 11:00	RNA in pathogenesis and therapy Chair: David Corey (US)	Symposia
09:00 - 09:30	Controlling disease genes with synthetic oligonucleotides: Novel mechanisms and targets David Corey (USA)	

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09:30 - 10:00	RNAi Therapeutics: From Principles to Patients Mano Manoharan (USA)	
09:30 - 10:00	RNAi Therapeutics: From Principles to Patients Annemieke Aartsma-Rus (The Netherlands)	
11:00 - 11:30	Coffee Break	Poster Session and Coffee Break
11:30 - 12:30	PABMB Lecture	Plenary Lectures
11:30 - 12:30	Imaging phagocytosis: receptors, integrins and the cytoskeleton Sergio Grinstein (Canada)	
12:30 - 13:45	Lunch Break & Commercial Event	Lunch Break and Commercial Event
13:45 - 14:45	EMBO Lecture	Plenary Lectures
13:45 - 14:45	Molecular mechanisms underlying brain wiring and social behaviour Claudia Bagni (Switzerland)	
14:45 - 16:15	Poster Session & Coffee Break	Poster Session and Coffee Break
16:15 - 18:15	Molecular biology of aging Chairs: Ewa Sikora (PL) Oliver Bischof (FR)	Symposia
16:15 - 16:45	Breaking the Code: Unraveling the Gene-Regulatory Network of Cell Aging and Senescence Oliver Bischof (France)	
16:45 - 17:15	Mitochondria and telomeres: guardians of cell senescence Joao Passos (UK)	
17:15 - 17:45	Epigenetic modulations in healthy/unhealthy aging: from cellular senescence to human longevity Fabiola Olivieri (Italy)	

Theatre Room S2

09:00 - 11:00	Proteins: Structure, disorder and dynamics Chairs: Mariusz Jaskolski (PL) Manfred Weiss (DE)	Symposia
09:00 - 09:30	The Amyloid State of Proteins David Eisenberg (USA)	
09:30 - 10:00	A new paradigm for biomolecular interactions: ultrahigh-affinity complex of two intrinsically disordered proteins involved in chromatin remodelling Alessandro Borgia (Switzerland)	
10:00 - 10:30	Time-resolved serial femtosecond crystallography: towards molecular movies of proteins in action Jacques-Philippe Colletier (France)	
11:00 - 11:30	Coffee Break	Poster Session and Coffee Break

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16:15 - 18:15 Multicomponent complexes Symposia

Chairs: Marcin Nowotny (PL) Krzysztof Liberek (PL)

16:15 - 16:45 **Coordination of enzymatic activities in nucleic acid processing assemblies**
Marcin Nowotny (Poland)

16:45 - 17:15 **Mechanisms of chaperones in protein quality control**
Bernd Bukau (Germany)

17:15 - 17:45 **UV-DDB DNA damage recognition in chromatin**
Nicolas Thoma (Switzerland)

Chamber Hall S3A

09:00 - 11:00 Natural networks and systems Symposia

Chairs: Piotr Zielenkiewicz (PL) Matthias Heinemann (NL)

09:00 - 09:30 **A system of coupled oscillators driving the cell cycle?**
Matthias Heinemann (The Netherlands)

09:30 - 10:00 **From its origins to the modern metabolic network**
Markus Ralser (UK)

10:00 - 10:30 **Organization of temporal gene expression: from promoter cycles to circadian clocks**
Felix Naef (Switzerland)

11:00 - 11:30 Coffee Break

Poster Session and Coffee Break

Chamber Hall S3B

09:00 - 11:00 Plant biotechnology Symposia

Chairs: Ewa Lojkowska (PL) Frederic Bourgaud (FR)

09:00 - 09:30 **"Milking the plants" and beyond: a new set of technologies to discover and produce active compounds from plants**
Frederic Bourgaud (France)

09:30 - 10:00 **Infancy and evolution of the phenolic metabolism**
Danièle Werck (France)

10:00 - 10:30 **Plant genome organization and functions and effects on plant development**
Ales Pecinka (Czech Republic)

11:00 - 11:30 Coffee Break

Poster Session and Coffee Break

16:15 - 18:15 Synthetic networks and systems Symposia

Chairs: Janusz Bujnicki (PL) Danny Barash (IL)

16:15 - 16:45 **Fragment-based design of RNA sequences and detection of RNA switches**
Danny Barash (Israel)

16:45 - 17:15 **Engineered riboswitches – novel means to control gene expression**
Beatrix Sues (Germany)

17:15 - 17:45 **Designing and Building Novel Nanostructures with Biological Molecules**
Jonathan Heddle (Poland)

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Hall Complex S4A

09:00 - 10:00 European Research Council Session

Special Sessions

10:00 - 11:00 Biochemistry, a success story

Symposia

Chair: Janko Kos (SL)

10:00 - 10:20 **Cathepsins race in cancer: who is the first?**

Janko Kos (Slovenia)

10:20 - 10:40 **How crystal structures of HIV enzymes enabled drug design against AIDS**

Alex Wlodawer (USA)

10:40 - 11:00 **Chemistry against a virus, virus against chemistry: rational drug design of HIV protease inhibitors and development of drug resistance towards them**

Jan Konvalinka (Czech Republic)

11:00 - 11:30 Coffee Break

Poster Session and Coffee Break

16:15 - 18:15 Plant–environment interaction

Symposia

Chairs: Michal Jasinski (PL) Markus Geisler (CH)

16:15 - 16:45 **Regulation of ABCG36/PEN3/PDR8 during Fusarium oxysporum infection requires the LRR receptor-like kinase, ALK1**

Markus Geisler (Switzerland)

16:45 - 17:15 **Beyond the gene-for-gene model model: receptor networks underpin plant immunity**

Sophien Kamoun (UK)

17:15 - 17:45 **Carbohydrate perception and signalling in legumes**

Jens Stougaard (Denmark)

Outside ICE Krakow

19:00 - 22:00 Congress Dinner in the Old Tram Depot

Social Program

Thursday, 2019/7/11

Auditorium Hall S1

09:00 - 11:00 Genome editing (CRISPR)

Symposia

Chair: Krzysztof Chylinski (AT)

09:00 - 09:30 **CRISPR-switch: spatial and temporal control of genome editing**

Krzysztof Chylinski (Austria)

09:30 - 10:00 **Probing stem cell biology with state-of-the-art screening technology**

Ulrich Elling (Austria)

10:00 - 10:30 **Using CRISPR-based approaches to treat metabolic liver diseases**

Gerald Schwank (Switzerland)

11:00 - 11:30 Coffee Break

Poster Session and Coffee Break

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11:30 - 12:30 Closing Lecture

Plenary Lectures

11:30 - 12:30 **Termination of translation in bacteria and eukaryotes**
Venki Ramakrishnan (UK)

12:30 - 13:00 Closing ceremony and poster prizes

Social Program

Theatre Room S2

09:00 - 11:00 Proteomic technologies

Symposia

Chairs: Jerzy Silberring (PL) Dominic M. Desiderio (US)

09:00 - 09:30 **The future of human neuroendocrinology: The use of mass spectrometry to study the pituitary**
Dominic M. Desiderio (USA)

09:30 - 10:00 **Omics in Precision Medicine**
Jonas Bergquist (Sweden)

10:00 - 10:30 **Large-scale label-free clinical proteomics and phosphoproteomics for precision medicine**
Connie R. Jimenez (The Netherlands)

11:00 - 11:30 Coffee Break

Poster Session and Coffee Break

Chamber Hall S3A

09:00 - 11:00 Epigenetics and protein glycosylation

Symposia

Chairs: Anna Litynska (PL) Gordon Lauc (HR)

09:00 - 09:30 **Transforming glycomics into a big data science**
Gordon Lauc (Croatia)

09:30 - 10:00 **Cellular Glycosylation: Biosynthesis and functional implications in cancer**
Celso A. Reis (Portugal)

10:00 - 10:02 **Glycomics of Cancer and Autoimmune Diseases**
Manfred Wuhrer (The Netherlands)

11:00 - 11:30 Coffee Break

Poster Session and Coffee Break

Chamber Hall S3B

09:00 - 11:00 Cell signaling in tumor biology

Symposia

Chairs: Marcin Majka (PL) Veronika Sexl (AT)

09:00 - 09:30 **CDKs – new kids on the block in leukemogenesis**
Veronika Sexl (Austria)

09:30 - 10:00 **SNAIL's way to promote tumorigenesis**
Marcin Majka (Poland)

10:00 - 10:30 **Senescent Cells: An Emerging Target for Cancer Therapy and Other Diseases of Aging**
Jan Van Deursen (USA)

11:00 - 11:30 Coffee Break

Poster Session and Coffee Break

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Hall Complex S4A

09:00 - 11:00 Bionanotechnology

Symposia

Chair: Jonathan Heddle (PL)

09:00 - 09:30 **Nanobiotechnology of protein nanopores from toxic organisms**

Gregor Anderluh (Ljubljana, Slovenia)

09:30 - 10:00 **Screening technologies for huge biological repertoires**

Aleksandre Gabibov (Russia)

10:00 - 10:30 **Deciphering nanoscale spatial effects in biology using DNA origami**

Björn Högberg (Sweden)

11:00 - 11:30 Coffee Break

Poster Session and Coffee Break